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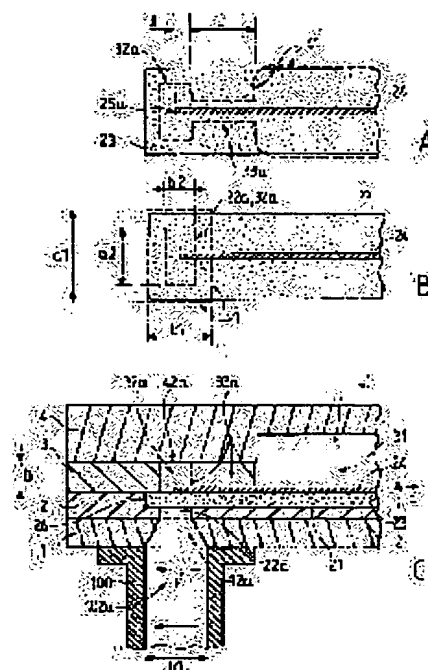
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## (54) MICROWAVE FREQUENCY DEVICE

(57)Abstract:

**PURPOSE:** To provide the device that is provided between a waveguide and a transmission line, contains and protects an integrated circuit, has performance required as a housing, is proper to connect the transmission line and a microwave frequency stub contained in the housing simply manufacture with reliability and is able to enclose the line and the integrated circuit.

**CONSTITUTION:** At least one transition part is provided between a transmission line 24 that is integrated on a board 23 made of a hard material and placed in a 1st microwave frequency cavity 31 and a waveguide 100 made of 2nd microwave frequency cavities 102a, 102b, and open ends 25a, 25b of the transmission line are placed to the transition part, a probe with a length inserted in the waveguide cavities at a point apart from a short-circuit closing a waveguide open end by a distance D is formed by the open ends, the transition part is provided with an impedance matching system and the board 23 is made of a material with a high dielectric constant.



## LEGAL STATUS

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